

**Drug Analysis Laboratory**  
**QC - IR Spectrophotometer**

Name & Model # : \_\_\_\_\_

Serial #: \_\_\_\_\_

**A. Frequency Check - Polystyrene (Bi-monthly):**

2850  $\pm$  6 cm<sup>-1</sup>  
1601  $\pm$  3 cm<sup>-1</sup>  
907  $\pm$  3 cm<sup>-1</sup>

Date: \_\_\_\_\_  
1  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**B. 100% Line (FTIR Only) (Bi-monthly):**

\_\_\_\_\_ cm<sup>-1</sup>  
\_\_\_\_\_ cm<sup>-1</sup>

\_\_\_\_\_  
\_\_\_\_\_

**C. Alignment (FTIR Only):**

1. Background Profile (Monthly)
2. Interferogram (Quarterly)

**D. Photometric Reproducibility (Monthly):**

(Scans must be within 2% of reproducibility)

**E. Baseline Stability (Quarterly):**

(< 5% between 4000 cm<sup>-1</sup> and 650 cm<sup>-1</sup>)

**F. Resolution (Quarterly):**

(Presence of a smaller peak on the low frequency side of 1601 peak)

**G. Cocaine HCL / Cocaine Base Scans (Quarterly):**

**Cocaine HCL**  
( $\pm$  5 cm<sup>-1</sup>)

1736  
1710  
1276  
1111

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1739  
1708  
1276  
1110  
713

QC Review: \_\_\_\_\_

QA Review: \_\_\_\_\_

**Drug Analysis Laboratory  
QC - IR Spectrophotometer**

Month/Year: \_\_\_\_\_

Operator: \_\_\_\_\_

Date: \_\_\_\_\_  
**2**

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**Cocaine Base**  
( $\pm$  5 cm $^{-1}$ )

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**Drug Analysis Laboratory  
QC - IR Spectrophotometer**

Name & Model # : \_\_\_\_\_

Serial #: \_\_\_\_\_

**A. Frequency Check - External Polystyrene (Bi-annually):**

2850  $\pm$  2 cm $^{-1}$   
1601  $\pm$  2 cm $^{-1}$   
907  $\pm$  2 cm $^{-1}$

Date: \_\_\_\_\_  
1

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**B. Frequency Check - Internal Polystyrene (Bi-monthly):**

2850  $\pm$  2 cm $^{-1}$   
1601  $\pm$  2 cm $^{-1}$   
907  $\pm$  2 cm $^{-1}$

Date: \_\_\_\_\_  
1

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**C. Cocaine HCL / Cocaine Base Scans (Quarterly):**

1727  
1711  
1265  
1105

**Cocaine HCL**  
( $\pm$  2 cm $^{-1}$ )

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**KBR Blank**

\_\_\_\_\_

QC Review: \_\_\_\_\_

QA Review: \_\_\_\_\_

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**Drug Analysis Laboratory**  
**QC - IR Spectrophotometer**

Month/Year: \_\_\_\_\_

Operator: \_\_\_\_\_

Date: \_\_\_\_\_

2

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_

2

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Cocaine Base**  
( $\pm$  2 cm $^{-1}$ )

1735  
1707  
1274  
1108  
775

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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